

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	(forward adj equalizer) same (timing adj recovery adj signal)	US-PGPUB; USPAT	OR	ON	2004/11/24 15:14
S2	60	(forward adj equalizer) same (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/22 11:33
S3	479	375/267.ccls. (forward adj equalizer) and (joint adj timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/22 11:34
S4	478	375/267.ccls. (forward adj equalizer) and (carrier adj recovery) and (joint adj timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/22 11:35
S5	0	375/267.ccls. and (forward adj equalizer) and (carrier adj recovery) and (joint adj timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/22 11:35
S6	0	375/267.ccls. and (forward adj equalizer) and (joint adj timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/22 11:36
S7	0	375/267.ccls. and (forward adj equalizer) same (joint adj timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/22 11:36
S8	0	375/267.ccls. and (joint adj timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/22 11:36
S9	1	375/326.ccls. and (forward adj equalizer) and (joint adj timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/22 11:37
S10	6	375/326.ccls. and (forward adj equalizer) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/22 11:40
S11	2	375/326.ccls. and (forward adj equalizer) and (timing adj recovery adj signal)	US-PGPUB; USPAT	OR	ON	2004/11/22 11:41
S12	29	"375"/\$.ccls. and (forward adj equalizer) and (carrier adj recovery) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/22 11:48
S13	6	"375"/\$.ccls. and (joint adj timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/22 13:19
S14	0	"375"/260.ccls. and (joint adj timing adj recovery)	US-PGPUB; USPAT	OR	ON	2005/08/15 09:19
S15	0	"375"/267.ccls. and (joint adj timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/22 13:20
S16	0	"455"/\$.ccls. and (joint adj timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/22 13:19
S17	0	"370"/\$.ccls. and (joint adj timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/22 13:19
S18	20	"375"/326.ccls. and (feed adj forward)	US-PGPUB; USPAT	OR	ON	2004/11/22 13:35

## EAST Search History

S19	1	"5638409".pn.	US-PGPUB; USPAT	OR	ON	2004/11/22 13:36
S20	10	("5638409").URPN.	USPAT	OR	ON	2004/11/22 13:41
S21	1	"6570942".pn.	USPAT	OR	ON	2004/11/22 13:42
S22	1	"6304621".pn.	USPAT	OR	ON	2004/11/22 13:42
S23	9	("4937841"   "5343502"   "5440259"   "5570370"   "5638409"   "5790604"   "5809009"   "5862187"   "5946359").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 14:29
S24	10	("5638409").URPN.	USPAT	OR	ON	2004/11/22 14:34
S25	396	375/229.ccls.	USPAT	OR	ON	2004/11/22 14:34
S26	55	375/229.ccls. and (timing adj recovery)	USPAT	OR	ON	2004/11/22 14:38
S27	21	375/229.ccls. and (carrier adj recovery)	USPAT	OR	ON	2004/11/22 14:45
S28	0	(sample adj rate adj converter) and (carrier adj recovery) and (forward adj equalizer)	USPAT	OR	ON	2004/11/22 14:47
S29	11	(sample adj rate) and (carrier adj recovery) and (forward adj equalizer)	USPAT	OR	ON	2004/11/22 14:47
S30	21	("5835532").URPN.	USPAT	OR	ON	2004/11/22 14:48
S31	10	("5654765"   "5835532"   "6002713"   "6052349"   "6130793"   "6141167"   "6201832"   "6289063"   "6381271"   "6505222").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 14:53
S32	2	375/260.ccls. and (Feed adj forward adj equalizer)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 14:54
S33	41	375/260.ccls. and (timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 14:58
S34	8	375/267.ccls. and (timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:06
S35	145	375/232.ccls. and (timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:25
S36	1	"6141671".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:26
S37	1	"6192088".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:26

## EAST Search History

S38	10	("4336616"   "4689804"   "5065107"   "5276716"   "5440587"   "5487186"   "5671253"   "5737694"   "5912930"   "5949832").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:29
S39	31	375/326.ccls. and diversity	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:31
S40	0	375/355.ccls. and (joint adj timing)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:32
S41	32	375/355.ccls. and (diversity)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:37
S42	12	("3851252"   "4015205"   "5499397"   "5694434"   "5742646"   "5905767"   "6049575"   "6304619"   "6359943"   "6583822"   "6628733"   "RE33665").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:32
S43	17	375/355.ccls. and (sample adj rate adj converter)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:44
S44	0	455/355.ccls. and (joint adj timing)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:40
S45	6	"455"/\$.ccls. and (joint adj timing)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:40
S46	1	("6192088").URPN.	USPAT	OR	ON	2004/11/22 15:41
S47	10	("5638409").URPN.	USPAT	OR	ON	2004/11/22 15:43
S48	6	375/232.ccls. and (diversity) and (timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:53
S49	0	375/267.ccls. and (forward adj equalizer) and (timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:53
S50	0	375/267.ccls. and (forward adj equalizer) and (carrier adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:54
S51	1	375/267.ccls. and (forward adj equalizer)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:54
S52	6	375/232.ccls. and (diversity) and (timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:56
S53	0	375/235.ccls. and (diversity) and (timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:56

## EAST Search History

S54	5	375/235.ccls. and (joint) with (timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:57
S55	7	"455"/\$.ccls. and (joint) with (timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/22 15:57
S56	4	(joint adj estimation) same equalizat\$5	US-PGPUB; USPAT	OR	ON	2004/11/24 15:19
S57	601	(joint) same equalizat\$5	US-PGPUB; USPAT	OR	ON	2004/11/24 15:15
S58	62	S57 and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/24 15:16
S59	28	(joint adj estimation) and equalizat\$5	US-PGPUB; USPAT	OR	ON	2004/11/24 15:20
S60	14	S59 and timing	US-PGPUB; USPAT	OR	ON	2004/11/24 15:21
S61	4	S59 and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/24 15:24
S62	66	375/340.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/24 15:25
S63	1	375/340.ccls. and (timing adj recovery) and diversity	US-PGPUB; USPAT	OR	ON	2004/11/24 15:26
S64	7	375/340.ccls. and (timing adj recovery) and joint	US-PGPUB; USPAT	OR	ON	2004/11/24 15:26
S65	0	375/340.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/11/24 15:26
S66	2	375/340.ccls. and (joint adj equaliza\$7)	US-PGPUB; USPAT	OR	ON	2004/11/24 15:27
S67	0	375/340.ccls. and (joint adj estimat\$5) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/24 15:28
S68	0	375/340.ccls. and (joint adj equali\$5) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/24 15:28
S69	3	375/340.ccls. and ((joint) same (timing adj recovery))	US-PGPUB; USPAT	OR	ON	2004/11/24 15:29
S70	0	375/340.ccls. and ((joint adj timing adj recovery))	US-PGPUB; USPAT	OR	ON	2004/11/24 15:29
S71	6	"375"/\$.ccls. and ((joint adj timing adj recovery))	US-PGPUB; USPAT	OR	ON	2004/11/24 15:29
S72	4	("5790514"   "6005893"   "6021167"   "6038251").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/24 15:30
S73	6	455/137.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/27 17:55
S74	2	455/132.ccls. and equalizers and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/27 17:58

## EAST Search History

S75	1	455/273.ccls. and equalizers and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/27 17:58
S76	16	"455"/\$.ccls. and samplers and equalizers and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/27 18:00
S77	155	"375"/\$.ccls. and samplers and equalizers and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/27 18:00
S78	63	"375"/\$.ccls. and diversity and equalizers and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/11/27 18:00
S79	12	("5214675"   "5515378"   "5613191"   "5630204"   "5708961"   "5969837"   "6029056"   "6088408"   "6115427"   "6167389"   "6345051"   "6466610").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/27 18:02
S80	5	("5127025"   "5353307"   "5499272"   "5596607"   "5748673").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/27 18:06
S81	8	375/267.ccls. and (timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/27 18:08
S82	93	375/267.ccls. and (equalizers)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/27 18:11
S83	0	375/267.ccls. and (joint adj equalizers)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/27 18:12
S84	1	375/267.ccls. and (joint adj estimat\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/27 18:12
S85	1	375/260.ccls. and (joint adj estimat\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/27 18:12
S86	55	"375"/\$.ccls. and (joint adj estimat\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/27 18:13
S87	29	"375"/\$.ccls. and (joint adj estimat\$5) and timing	US-PGPUB; USPAT; USOCR	OR	ON	2004/11/27 18:13
S88	27	"375"/\$.ccls. and (parallel adj demodulators)	US-PGPUB; USPAT	OR	ON	2004/12/03 15:53
S89	25	("4387459"   "4638476"   "4755763"   "5293382"   "5412352"   "5440265"   "5533023"   "5546401"   "5640424"   "5663962"   "5696797"   "5719899"   "5751724"   "5809422"   "5903550"   "6034974"   "6055280"   "6097766"   "6137785"   "6172994"   "6198754"   "6310865"   "6356581"   "6363262"   "6480534").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/03 15:59

## EAST Search History

S90	6	("4633193"   "4675558"   "5235622"   "5400370"   "5563891"   "5651031"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/03 16:02
S91	9	"375"/\$.ccls. and (plurality adj converter)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/03 16:03
S92	5	"375"/\$.ccls. and (plurality adj sample adj rate adj converter)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/03 16:05
S93	0	"375"/326.ccls. and (plurality adj sample adj rate adj converter)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/03 16:08
S94	1	"455"/\$.ccls. and (plurality adj sample adj rate adj converter)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/03 16:06
S95	6	(plurality adj sample adj rate adj converter)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/03 16:06
S96	8	"455"/\$.ccls. and (joint adj estimation) and (equaliz\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/03 16:11
S97	0	"375"/232.ccls. and ( plurality adj forward adj equaliz\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/03 16:12
S98	41	"375"/232.ccls. and ( plurality adj equaliz\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/03 16:18
S99	9	"375"/232.ccls. and (parallel adj equaliz\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/03 16:32
S100	1	"6304621".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/03 16:29
S101	3	("6304621").URPN.	USPAT	OR	ON	2004/12/03 16:31
S102	4	"375"/\$.ccls. and (parallel adj interpolator)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/03 16:33
S103	1	"455"/137.ccls. and (forward adj equalizer)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/03 16:37

## EAST Search History

S10 4	46	("3940694"   "4468786"   "4599732"   "4630262"   "4644562"   "4688213"   "4733402"   "4821289"   "4872163"   "4972434"   "5005189"   "5029186"   "5031193"   "5052000"   "5056117"   "5063573"   "5111484"   "5127051"   "5132988"   "5142551"   "5155742"   "5185764"   "5199047"   "5202903"   "5204874"   "5206863"   "5214675"   "5231648"   "5234347"   "5249204"   "5249205"   "5251233"   "5251237"   "5251328"   "5257265"   "5257399"   "5263052"   "5263053"   "5285482"   "5297171"   "5301167"   "5379046"   "5473333"   "5528581"   "5537443"   "5757845").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/03 16:34
S10 5	6	"455"/137.ccls. and (timing adj recover\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/03 16:40
S10 6	2	"455"/139.ccls. and (timing adj recover\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/03 16:40
S10 7	4	"455"/133.ccls. and (timing adj recover\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/03 16:41
S10 8	5864	"375"/\$.ccls. and (Digital near4 receiver)	US-PGPUB; USPAT	OR	ON	2004/12/04 10:47
S10 9	0	"375"/240.06.ccls. and (Digital adj T adj receiver)	US-PGPUB; USPAT	OR	ON	2004/12/04 10:47
S11 0	0	"375"/240.06.ccls. and (Digital adj Tv adj receiver)	US-PGPUB; USPAT	OR	ON	2004/12/04 10:48
S11 1	0	"375"/240.06.ccls. and (Digital near receiver)	US-PGPUB; USPAT	OR	ON	2004/12/04 10:48
S11 2	4	"375"/240.06.ccls. and (receiver)	US-PGPUB; USPAT	OR	ON	2004/12/04 10:49
S11 3	28	"375"/240.06.ccls.	US-PGPUB; USPAT	OR	ON	2004/12/04 10:51
S11 4	107	"375"/232.ccls. and (digital near receiver)	US-PGPUB; USPAT	OR	ON	2004/12/04 11:15
S11 5	6	"375"/232.ccls. and (digital adj Tv adj receiver)	US-PGPUB; USPAT	OR	ON	2004/12/04 11:16
S11 6	1	"375"/232.ccls. and (SRC)	US-PGPUB; USPAT	OR	ON	2004/12/04 11:16
S11 7	4	"375"/232.ccls. and (Sampling adj rate adj converter)	US-PGPUB; USPAT	OR	ON	2004/12/04 11:18
S11 8	86	"375"/\$.ccls. and (Sampling adj rate adj converter)	US-PGPUB; USPAT	OR	ON	2004/12/04 11:19

## EAST Search History

S11 9	2	"375"/\$.ccls. and ((Sampling adj rate adj converter) same equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:38
S12 0	1	"6192088".pn.	US-PGPUB; USPAT	OR	ON	2004/12/06 10:30
S12 1	10	("4336616"   "4689804"   "5065107"   "5276716"   "5440587"   "5487186"   "5671253"   "5737694"   "5912930"   "5949832").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/06 10:31
S12 2	1	("6192088").URPN.	USPAT	OR	ON	2004/12/06 10:32
S12 3	7	("5513209"   "5703904"   "6018556"   "6115431"   "6134276"   "6192088"   "6198780").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/06 10:33
S12 4	2	375/321.ccls. and (sampling adj rate adj converter)	US-PGPUB; USPAT	OR	ON	2004/12/06 10:46
S12 5	36	375/321.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 10:52
S12 6	7	("3851252"   "4972357"   "5067140"   "5410368"   "5418815"   "5479449"   "5506636").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/06 10:45
S12 7	1	"6141671".pn.	US-PGPUB; USPAT	OR	ON	2004/12/06 10:46
S12 8	37	375/347.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:04
S12 9	12	("3851252"   "4015205"   "5499397"   "5694434"   "5742646"   "5905767"   "6049575"   "6304619"   "6359943"   "6583822"   "6628733"   "RE33665").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/06 10:55
S13 0	0	375/347.ccls. and (sampling adj rate adj converter)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:04
S13 1	861	375/347.ccls.	US-PGPUB; USPAT	OR	ON	2004/12/06 11:05
S13 2	378	375/347.ccls. and timing	US-PGPUB; USPAT	OR	ON	2004/12/06 11:05
S13 3	37	375/347.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:06
S13 4	4	375/347.ccls. and (digital adj television adj receiver)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:43
S13 5	7	("4280128"   "4691205"   "5230007"   "5274844"   "5771439"   "5844951"   "5884192").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/06 11:07
S13 6	196	"375"/\$.ccls. and (digital adj television adj receiver)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:08
S13 7	48	"375"/\$.ccls. and (digital adj television adj receiver) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:08

## EAST Search History

S13 8	3	("5325188"   "5969751"   "6449002"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/06 11:13
S13 9	1	"5748226".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/06 11:13
S14 0	20	375/232.ccls. and (digital adj television adj receiver)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:23
S14 1	0	375/232.ccls. and (pularity adj equalizers)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:23
S14 2	0	375/232.ccls. and (plurality adj equalizers)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:23
S14 3	27	375/232.ccls. and (plurality adj equalizers)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:25
S14 4	6	455/132.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:28
S14 5	2	455/133.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:29
S14 6	6	455/137.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:31
S14 7	1	455/134.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:32
S14 8	2	455/135.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:32
S14 9	1	455/141.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:36
S15 0	2	455/139.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:37
S15 1	3	((Sampling adj rate adj converter) same equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:42
S15 2	8586	"725"/\$.ccls. ((Sampling adj rate adj converter) same equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:42
S15 3	0	"725"/\$.ccls. and ((Sampling adj rate adj converter) same equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:42
S15 4	127	"725"/\$.ccls. and (digital adj television adj receiver)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:43
S15 5	0	"725"/\$.ccls. and (digital adj television adj receiver) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:43
S15 6	127	"725"/\$.ccls. and (digital adj television adj receiver)	US-PGPUB; USPAT	OR	ON	2004/12/06 11:44
S15 7	68	(digital adj television adj receiver) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 13:18
S15 8	0	375/267.ccls. and(digital adj television adj receiver) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 13:19

## EAST Search History

S15 9	0	375/267.ccls. and (digital adj television adj receiver) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 13:55
S16 0	8	375/267.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 13:19
S16 1	0	375/267.ccls. and (digital adj television adj receiver)	US-PGPUB; USPAT	OR	ON	2004/12/06 13:56
S16 2	1	375/267.ccls. and (equalizer) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 13:58
S16 3	7	("4584534"   "4873683"   "5109392"   "5128969"   "5142534"   "5214390"   "5349609").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/06 13:57
S16 4	3	375/267.ccls. and (equalizer) and (timing adj control)	US-PGPUB; USPAT	OR	ON	2004/12/06 13:59
S16 5	9	375/348.ccls. and (equalizer) and (timing adj control)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:00
S16 6	12	375/348.ccls. and (timing adj control)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:02
S16 7	36	375/347.ccls. and (timing adj control)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:32
S16 8	1	"6560299".pn.	US-PGPUB; USPAT	OR	ON	2004/12/06 14:14
S16 9	6	("5065411"   "5499272"   "5530725"   "5844951"   "5859870"   "5901174").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/06 14:14
S17 0	0	375/267.ccls. and (joint adj timing adj control)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:16
S17 1	17	375/267.ccls. and (timing adj control)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:20
S17 2	3	455/132.ccls. and (timing adj control)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:21
S17 3	3	455/133.ccls. and (timing adj control)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:22
S17 4	3	455/134.ccls. and (timing adj control)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:23
S17 5	3	455/135.ccls. and (timing adj control)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:23
S17 6	3	455/137.ccls. and (timing adj control)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:23
S17 7	12	375/347.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:34
S17 8	5	375/347.ccls. and (joint adj equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:35
S17 9	1	375/232.ccls. and (joint adj equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:35

## EAST Search History

S18 0	0	375/230.ccls. and (joint adj equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:35
S18 1	0	375/231.ccls. and (joint adj equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:35
S18 2	1	375/232.ccls. and (joint adj equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:35
S18 3	1	375/233.ccls. and (joint adj equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:35
S18 4	0	375/234.ccls. and (joint adj equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:35
S18 5	0	375/234.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:36
S18 6	2	375/233.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:36
S18 7	1	375/232.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:36
S18 8	0	375/230.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:36
S18 9	1	375/229.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:37
S19 0	0	375/267.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:37
S19 1	0	375/267.ccls. and (joint adj equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:37
S19 2	2	375/267.ccls. and (timing adj loop)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:37
S19 3	4	375/259.ccls. and (timing adj loop)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:38
S19 4	0	375/270.ccls. and (timing adj loop)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:38
S19 5	4	375/270.ccls. and (timing adj control)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:43
S19 6	4	"375"/\$.ccls. and (joint adj timing adj control)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:43
S19 7	4	"375"/\$.ccls. and (joint adj timing adj loop)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:50
S19 8	6	("5065411"   "5499272"   "5530725"   "5844951"   "5859870"   "5901174"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/06 14:44
S19 9	4	(joint adj timing adj loop)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:45
S20 0	5	(joint adj timing adj control)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:45

## EAST Search History

S20 1	4	(joint adj equalizer) and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:47
S20 2	1	(joint adj estimation) and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:47
S20 3	9	(forward adj equalizers) and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:48
S20 4	0	"375"/355.ccls. and (joint adj timing adj loop)	US-PGPUB; USPAT	OR	ON	2004/12/06 15:10
S20 5	0	"375"/355.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:50
S20 6	0	"375"/355.ccls. and (joint adj equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:50
S20 7	187	"375"/355.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:50
S20 8	11	"375"/355.ccls. and (timing adj recovery) and diversity	US-PGPUB; USPAT	OR	ON	2004/12/06 14:53
S20 9	18	("4344179"   "4412299"   "4811363"   "4866739"   "5235622"   "5285482"   "5491729"   "5550872"   "5598428"   "5621752"   "5654979"   "5654987"   "5671257"   "5719907"   "5761252"   "5764687"   "5933421"   "5940452"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/06 14:51
S21 0	2	"375"/272.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:56
S21 1	0	"375"/272.ccls. and (timing adj loop)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:54
S21 2	0	"375"/272.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:54
S21 3	0	"375"/273.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:54
S21 4	1	"375"/273.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:55
S21 5	0	"375"/273.ccls. and (timing adj loop)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:55
S21 6	1	"375"/273.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:55
S21 7	0	"375"/277.1.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:55
S21 8	0	"375"/277.1.ccls. and (timing adj loop)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:56
S21 9	0	"375"/277.1.ccls. and (timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:56
S22 0	2	"455"/272.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:56

## EAST Search History

S22 1	0	"455"/272.ccls. and (timing adj loop)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:56
S22 2	0	"455"/272.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:57
S22 3	2	"455"/273.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:57
S22 4	1	"455"/275.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:58
S22 5	5	"455"/277.1.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 14:59
S22 6	1	"455"/277.1.ccls. and (timing adj loop)	US-PGPUB; USPAT	OR	ON	2004/12/06 15:00
S22 7	0	"455"/273.ccls. and (timing adj loop)	US-PGPUB; USPAT	OR	ON	2004/12/06 15:00
S22 8	2	"455"/273.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/06 15:00
S22 9	16	("6032033").URPN.	USPAT	OR	ON	2004/12/06 15:09
S23 0	1	"6560299".pn.	USPAT	OR	ON	2004/12/06 15:09
S23 1	1	("6560299").URPN.	USPAT	OR	ON	2004/12/06 15:09
S23 2	1	"375"/229.ccls. and (joint adj equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 15:11
S23 3	0	"375"/230.ccls. and (joint adj equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 15:11
S23 4	0	"375"/231.ccls. and (joint adj equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 15:11
S23 5	1	"375"/232.ccls. and (joint adj equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 15:11
S23 6	0	"375"/234.ccls. and (joint adj equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 15:11
S23 7	1	"375"/233.ccls. and (joint adj equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 15:11
S23 8	0	"375"/235.ccls. and (joint adj equalizer)	US-PGPUB; USPAT	OR	ON	2004/12/06 15:12
S23 9	0	"375"/235.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 15:12
S24 0	0	"375"/355.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/06 15:12
S24 1	3	"375"/355.ccls. and (timing adj control) and diversity	US-PGPUB; USPAT	OR	ON	2004/12/06 15:13
S24 2	12	"375"/347.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:05

## EAST Search History

S24 3	1	"5891834".pn.	US-PGPUB; USPAT	OR	ON	2004/12/06 15:15
S24 4	1	"6038272".pn.	US-PGPUB; USPAT	OR	ON	2004/12/06 15:16
S24 5	0	"375"/347.ccls. and (variable adj interpolator)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:05
S24 6	37	"375"/347.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:11
S24 7	5	("5127025"   "5353307"   "5499272"   "5596607"   "5748673").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/08 19:06
S24 8	38	"375"/348.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:09
S24 9	22	"375"/349.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:13
S25 0	116	"375"/350.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:18
S25 1	187	"375"/355.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:18
S25 2	5	"375"/355.ccls. and (sample adj rate adj converter) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:19
S25 3	2	"375"/355.ccls. and (sampling adj rate adj converter) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:22
S25 4	0	"375"/355.ccls. and (variable adj interpolator) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:22
S25 5	50	"375"/355.ccls. and (interpolator) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:24
S25 6	7	(variable adj interpolator) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:26
S25 7	31330	"382"/\$.ccls. (variable adj interpolator) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:26
S25 8	0	"382"/\$.ccls. and (variable adj interpolator) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:26
S25 9	0	"382"/\$.ccls. and (SRC) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:26
S26 0	39	(SRC) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:29
S26 1	13	(SRC) same (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:30
S26 2	23	(sample adj rate adj converter) same (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:31
S26 3	1	(sampling adj rate adj converter) same (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/08 19:31

## EAST Search History

S26 4	41	375/260.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/09 09:17
S26 5	8	375/267.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/09 09:18
S26 6	2	375/267.ccls. and (timing adj loop)	US-PGPUB; USPAT	OR	ON	2004/12/09 09:19
S26 7	9	375/347.ccls. and (timing adj loop)	US-PGPUB; USPAT	OR	ON	2004/12/09 09:29
S26 8	6	("5065411"   "5499272"   "5530725"   "5844951"   "5859870"   "5901174").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/09 09:19
S26 9	46	("3940694"   "4468786"   "4599732"   "4630262"   "4644562"   "4688213"   "4733402"   "4821289"   "4872163"   "4972434"   "5005189"   "5029186"   "5031193"   "5052000"   "5056117"   "5063573"   "5111484"   "5127051"   "5132988"   "5142551"   "5155742"   "5185764"   "5199047"   "5202903"   "5204874"   "5206863"   "5214675"   "5231648"   "5234347"   "5249204"   "5249205"   "5251233"   "5251237"   "5251328"   "5257265"   "5257399"   "5263052"   "5263053"   "5285482"   "5297171"   "5301167"   "5379046"   "5473333"   "5528581"   "5537443"   "5757845").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/09 09:21
S27 0	0	455/278.1.ccls. and (timing adj loop)	US-PGPUB; USPAT	OR	ON	2004/12/09 09:27
S27 1	3	455/278.1.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/09 09:28
S27 2	1	"6192088".pn.	US-PGPUB; USPAT	OR	ON	2004/12/09 09:28
S27 3	35	375/355.ccls. and (timing adj loop)	US-PGPUB; USPAT	OR	ON	2004/12/09 09:31
S27 4	5	"375"/\$.ccls. and (feedforward adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/09 09:32
S27 5	0	"455"/\$.ccls. and (feedforward adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/09 09:32
S27 6	2	"370"/\$.ccls. and (feedforward adj timing)	US-PGPUB; USPAT	OR	ON	2004/12/09 09:33
S27 7	0	"370"/\$.ccls. and (plurality adj decimators) and diversity	US-PGPUB; USPAT	OR	ON	2004/12/09 09:33
S27 8	1	"455"/\$.ccls. and (plurality adj decimators) and diversity	US-PGPUB; USPAT	OR	ON	2004/12/09 09:34
S27 9	0	"455"/\$.ccls. and (plurality adj decimators) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/09 09:34

## EAST Search History

S28 0	1	"375"/\$.ccls. and (plurality adj decimators) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/09 09:36
S28 1	4	("4755761"   "4866647"   "5495203"   "6005640").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/12/09 09:35
S28 2	0	"375"/21.ccls. and (plurality adj decimators) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/09 09:36
S28 3	0	"375"/321.ccls. and (plurality adj decimators) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/09 09:36
S28 4	2	"375"/321.ccls. and (decimators) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2004/12/09 09:36
S28 5	0	"375"/267.ccls. and (diversity) and (timing adj recovery) and SB	US-PGPUB; USPAT	OR	ON	2004/12/09 09:37
S28 6	0	"375"/267.ccls. and (diversity) and (timing adj recovery) and vSB	US-PGPUB; USPAT	OR	ON	2004/12/09 09:37
S28 7	0	"375"/267.ccls. and (diversity) and vSB	US-PGPUB; USPAT	OR	ON	2004/12/09 09:37
S28 8	0	"375"/267.ccls. and (diversity) and "vSB"	US-PGPUB; USPAT	OR	ON	2004/12/09 09:37
S28 9	1	"6141671".pn.	US-PGPUB; USPAT	OR	ON	2004/12/09 13:46
S29 0	12	"375"/326.ccls. and (Forward adj equalizer)	US-PGPUB; USPAT	OR	ON	2005/08/08 15:51
S29 1	5	("4334313"   "5642382"   "5648987"   "5712873"   "5793821").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/08 15:50
S29 2	15	"375"/347.ccls. and (Forward adj equalizer)	US-PGPUB; USPAT	OR	ON	2005/08/08 15:58
S29 3	23	"375"/348.ccls. and (Forward adj equalizer)	US-PGPUB; USPAT	OR	ON	2005/08/08 16:02
S29 4	34	"375"/\$.ccls. and (carrier adj recovery) and (Forward adj equalizer) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2005/08/08 16:03
S29 5	4	"375"/\$.ccls. and ((carrier adj recovery) same (Forward adj equalizer) same (timing adj recovery))	US-PGPUB; USPAT	OR	ON	2005/08/08 16:11
S29 6	5	((carrier adj recovery) same (Forward adj equalizer) same (timing adj recovery))	US-PGPUB; USPAT	OR	ON	2005/08/08 16:08
S29 7	1	"455"/\$.ccls. and ((carrier adj recovery) same (Forward adj equalizer) same (timing adj recovery))	US-PGPUB; USPAT	OR	ON	2005/08/08 16:09
S29 8	0	"375"/267.ccls. and ((carrier adj recovery) same (Forward adj equalizer) same (timing adj recovery))	US-PGPUB; USPAT	OR	ON	2005/08/08 16:11

## EAST Search History

S29 9	0	"375"/267.ccls. and ((Forward adj equalizer) same (timing adj recovery))	US-PGPUB; USPAT	OR	ON	2005/08/08 16:12
S30 0	3	"375"/326.ccls. and ((Forward adj equalizer) same (timing adj recovery))	US-PGPUB; USPAT	OR	ON	2005/08/09 11:37
S30 1	12	"375"/326.ccls. and ((Forward adj equalizer))	US-PGPUB; USPAT	OR	ON	2005/08/09 14:08
S30 2	5	("4334313"   "5642382"   "5648987"   "5712873"   "5793821").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/09 12:05
S30 3	41	375/347.ccls. and ( (timing adj recovery))	US-PGPUB; USPAT	OR	ON	2005/08/09 13:09
S30 4	1	"20020106040"	US-PGPUB; USPAT	OR	ON	2005/08/09 12:20
S30 5	13	("5499397"   "5625652"   "5742646"   "5805242"   "5805643"   "5862191"   "6075408"   "6304619"   "6359944"   "6411661"   "6545532"   "6628733"   "6690745").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/09 13:05
S30 6	41	375/347.ccls. and ( carrier adj recovery)	US-PGPUB; USPAT	OR	ON	2005/08/09 14:02
S30 7	235	375/347.ccls. and ( equalizer)	US-PGPUB; USPAT	OR	ON	2005/08/09 14:02
S30 8	4	375/347.ccls. and ( plurality adj equalizer)	US-PGPUB; USPAT	OR	ON	2005/08/09 14:03
S30 9	10	375/267.ccls. and ( timing adj recovery)	US-PGPUB; USPAT	OR	ON	2005/08/09 14:04
S31 0	18	"375"/\$.ccls. and (diversity same equalizer same (timing adj recovery))	US-PGPUB; USPAT	OR	ON	2005/08/09 14:12
S31 1	5	("5127025"   "5353307"   "5499272"   "5596607"   "5748673").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/09 14:10
S31 2	4	"375"/232.ccls. and (diversity same (timing adj recovery))	US-PGPUB; USPAT	OR	ON	2005/08/09 14:13
S31 3	9	("5202903"   "5559757"   "5657401"   "5666429"   "5697083"   "5710995"   "6032114"   "6130909"   "6275485").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/09 14:14
S31 4	444	plurality near equalizers	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/09 14:14
S31 5	45	S314 and (timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/09 14:26
S31 6	1	"455"/\$.ccls. and S314 and (timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/09 14:19

## EAST Search History

S31 7	2	S314 and (timing adj recovery) and diversity	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/09 14:27
S31 8	1	S314 and (joint adj timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/09 14:27
S31 9	7	"375"/\$.ccls. and (joint adj timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/09 14:28
S32 0	0	"455"/\$.ccls. and (joint adj timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/09 14:29
S32 1	8	(joint adj timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/09 14:29
S32 2	1	375/229.ccls. and (joint adj timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/09 14:29
S32 3	82	375/229.ccls. and (timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/09 15:07
S32 4	6	("5533050").URPN.	USPAT	OR	ON	2005/08/09 14:31
S32 5	1	"20040014424"	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/09 15:08
S32 6	1	"5031195".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/09 15:08
S32 7	1	"6389063".PN.	US-PGPUB; USPAT	OR	ON	2005/08/09 15:39
S32 8	1	"6603807".PN.	US-PGPUB; USPAT	OR	ON	2005/08/09 15:39
S32 9	1	"6359926".PN.	US-PGPUB; USPAT	OR	ON	2005/08/09 15:40
S33 0	3	(plurality adj equalizer) same (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:16
S33 1	19	(diversity same equalizer) same (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:17
S33 2	0	((plurality adj antenna) same equalizer) same (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:17
S33 3	12	((plurality adj antenna) and equalizer) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:19
S33 4	41	((OFDM) same equalizer) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:23

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S33 5	1	"20050100120"	US-PGPUB; USPAT	OR	ON	2005/08/12 10:26
S33 6	3	455/272.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:27
S33 7	13	("5499397"   "5625652"   "5742646"   "5805242"   "5805643"   "5862191"   "6075408"   "6304619"   "6359944"   "6411661"   "6545532"   "6628733"   "6690745").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/12 10:27
S33 8	3	455/272.ccls. and (frame adj synchro\$8)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:32
S33 9	226	455/272.ccls.	US-PGPUB; USPAT	OR	ON	2005/08/12 10:32
S34 0	0	455/272.ccls. and (eualizer)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:32
S34 1	12	455/272.ccls. and (equalizer)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:34
S34 2	40	455/278.1.ccls. and (equalizer)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:36
S34 3	2	455/278.1.ccls. and (joint near2 equalizer)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:36
S34 4	1	"455"/\$.ccls. and (joint near2 equalizer) and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:37
S34 5	8	"455"/\$.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:38
S34 6	9	"370"/\$.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:42
S34 7	25	"375"/\$.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:41
S34 8	2	"375"/233.ccls. and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:41
S34 9	6	("5065411"   "5499272"   "5530725"   "5844951"   "5859870"   "5901174").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/12 10:41
S35 0	1	decimator and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:43
S35 1	5	interpolator and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:44
S35 2	0	(plurality adj equalizer) and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:44
S35 3	10	(forward adj equalizer) and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:46
S35 4	7	(spatial adj diversity) and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:48

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S35 5	5	(spatial adj tempo\$5) and (joint adj timing)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:48
S35 6	423	(375/347.ccls.) and synchroniz\$5	US-PGPUB; USPAT	OR	ON	2005/08/12 10:49
S35 7	416	(375/347.ccls.) and timing	US-PGPUB; USPAT	OR	ON	2005/08/12 10:49
S35 8	44	(375/347.ccls.) and (timing adj recove\$5)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:53
S35 9	7	455/277.1.ccls. and (timing adj recove\$5)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:55
S36 0	202	375/355.ccls. and (timing adj recove\$5)	US-PGPUB; USPAT	OR	ON	2005/08/12 10:57
S36 1	11	375/355.ccls. and (timing adj recove\$5) and diversity	US-PGPUB; USPAT	OR	ON	2005/08/12 11:00
S36 2	41	375/355.ccls. and (timing adj recove\$5) and (carrier adj recov\$5)	US-PGPUB; USPAT	OR	ON	2005/08/12 11:19
S36 3	2	("5513221"   "5654982").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/12 11:07
S36 4	7	("5870438").URPN.	USPAT	OR	ON	2005/08/12 11:08
S36 5	32	"375"/\$.ccls. and (multi adj channel) and (timing adj recove\$5) and (carrier adj recov\$5)	US-PGPUB; USPAT	OR	ON	2005/08/12 11:20
S36 6	0	375/340.ccls. and ((vestigial) same (carrier adj recovery) same synch\$5)	US-PGPUB; USPAT	OR	ON	2005/08/12 13:51
S36 7	0	"375"/\$.ccls. and ((vestigial) same (carrier adj recovery) same synch\$5)	US-PGPUB; USPAT	OR	ON	2005/08/12 13:51
S36 8	0	((vestigial) same (carrier adj recovery) same synch\$5)	US-PGPUB; USPAT	OR	ON	2005/08/12 13:51
S36 9	1	((vSB) same (carrier adj recovery) same synch\$5)	US-PGPUB; USPAT	OR	ON	2005/08/12 15:01
S37 0	0	((carrier adj recovery) same (symbol adj synch\$5))	US-PGPUB; USPAT	OR	ON	2005/08/12 13:52
S37 1	0	((carrier adj recovery) and (symbol adj synch\$5))	US-PGPUB; USPAT	OR	ON	2005/08/12 13:53
S37 2	666	((carrier adj recovery) same (timing))	US-PGPUB; USPAT	OR	ON	2005/08/12 13:53
S37 3	17	"375"/\$.ccls. and (((carrier adj recovery) same (timing)) same sampler)	US-PGPUB; USPAT	OR	ON	2005/08/12 13:57
S37 4	2	"375"/\$.ccls. and ((timing adj carrier adj recovery) same sampler)	US-PGPUB; USPAT	OR	ON	2005/08/12 14:04
S37 5	1	"5694419".pn.	US-PGPUB; USPAT	OR	ON	2005/08/12 14:34

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S37 6	17	(Nyquist adj filter) with (square adj root adj raised adj cosine)	US-PGPUB; USPAT	OR	ON	2005/08/12 14:36
S37 7	0	(vsb same (Nyquist adj filter) with (square adj root adj raised adj cosine))	US-PGPUB; USPAT	OR	ON	2005/08/12 14:36
S37 8	6	vsb and ((Nyquist adj filter) with (square adj root adj raised adj cosine))	US-PGPUB; USPAT	OR	ON	2005/08/12 14:37
S37 9	6	(vestigial adj sideband) and ((Nyquist adj filter) with (square adj root adj raised adj cosine))	US-PGPUB; USPAT	OR	ON	2005/08/12 14:37
S38 0	28	(vSB) and (carrier adj recovery) and diversity	US-PGPUB; USPAT	OR	ON	2005/08/12 15:02
S38 1	0	455/109.ccls. and (plurality near antenna) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2005/08/12 15:03
S38 2	0	455/109.ccls. and (plurality near antenna) and (timing )	US-PGPUB; USPAT	OR	ON	2005/08/12 15:03
S38 3	0	455/109.ccls. and (plurality near antenna)	US-PGPUB; USPAT	OR	ON	2005/08/12 15:03
S38 4	1	455/109.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2005/08/12 15:07
S38 5	64	455/109.ccls. and (antenna)	US-PGPUB; USPAT	OR	ON	2005/08/12 15:07
S38 6	2	(plurality adj antenna) same (vestigial adj sideband)	US-PGPUB; USPAT	OR	ON	2005/08/12 15:21
S38 7	0	"09545703".pn.	US-PGPUB; USPAT	OR	ON	2005/08/12 15:22
S38 8	1	"6658048".pn.	US-PGPUB; USPAT	OR	ON	2005/08/12 15:22
S38 9	0	309/293217	US-PGPUB; USPAT	OR	ON	2005/08/15 09:07
S39 0	1	09/293217	US-PGPUB; USPAT	OR	ON	2005/08/15 09:19
S39 1	1	"5535239".pn.	US-PGPUB; USPAT	OR	ON	2005/08/15 09:19
S39 2	46	"375"/\$.ccls. and (OFDM same (timing adj recovery))	US-PGPUB; USPAT	OR	ON	2005/08/15 10:01
S39 3	44	"370"/\$.ccls. and (OFDM same (timing adj recovery))	US-PGPUB; USPAT	OR	ON	2005/08/15 10:24
S39 4	1	"5703905".pn.	US-PGPUB; USPAT	OR	ON	2005/08/15 10:25
S39 5	43	375/347.ccls. and (CARRIER ADJ RECOVERY)	US-PGPUB; USPAT	OR	ON	2005/08/16 13:40
S39 6	12	375/347.ccls. and (CARRIER ADJ RECOVERY) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2005/08/16 13:52

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S39 7	95	"455"/\$.ccls. and (CARRIER ADJ RECOVERY) and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2005/08/16 13:43
S39 8	24	"455"/\$.ccls. and (CARRIER ADJ RECOVERY) and (timing adj recovery) and diversity	US-PGPUB; USPAT	OR	ON	2005/08/16 13:43
S39 9	42	375/347.ccls. and (timing adj recovery)	US-PGPUB; USPAT	OR	ON	2005/08/16 14:01
S40 0	1	"5703905".pn.	US-PGPUB; USPAT	OR	ON	2005/08/16 14:01
S40 1	1	"5694419".pn.	US-PGPUB; USPAT	OR	ON	2006/02/06 11:22
S40 2	1	"6911947".pn.	US-PGPUB; USPAT	OR	ON	2006/02/06 11:07
S40 3	1	"6304621".pn.	US-PGPUB; USPAT	OR	ON	2006/02/06 11:07
S40 4	1	"5694919".pn.	US-PGPUB; USPAT	OR	ON	2006/02/06 11:22
S40 5	1	"5694419".pn.	US-PGPUB; USPAT	OR	ON	2006/02/06 11:24
S40 6	1	"5703905".pn.	US-PGPUB; USPAT	OR	ON	2006/02/06 11:24
S40 7	12	("5703905").URPN.	USPAT	OR	ON	2006/02/06 11:30
S40 8	1	multi adj channel adj timing adj recovery	USPAT	OR	ON	2006/02/06 11:30
S40 9	1	(multi adj channel) with (timing adj recovery)	USPAT	OR	ON	2006/02/06 11:33
S41 0	512	(channel) with (timing adj recovery)	USPAT	OR	ON	2006/02/06 11:31
S41 1	0	(combined adj channel) with (timing adj recovery)	USPAT	OR	ON	2006/02/06 11:32
S41 2	0	(joint adj channel) with (timing adj recovery)	USPAT	OR	ON	2006/02/06 11:32
S41 3	5	(multi adj channel) same (timing adj recovery)	USPAT	OR	ON	2006/02/06 11:33
S41 4	5	("5274678"   "5285482"   "5353312"   "5515403"   "5581585").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/06 11:33
S41 5	1	"5703905".pn.	US-PGPUB; USPAT	OR	ON	2006/02/09 09:22
S41 6	5	("5274678"   "5285482"   "5353312"   "5515403"   "5581585").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/09 11:23
S41 7	14	("5353312").URPN.	USPAT	OR	ON	2006/02/09 11:53

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S41 8	1	"6304621".pn.	USPAT	OR	ON	2006/02/09 11:58
S41 9	1	"6216251".pn.	USPAT	OR	ON	2006/02/09 11:58
S42 0	1	"6216250".pn.	USPAT	OR	ON	2006/02/09 13:34
S42 1	30	FIR adj bandpass adj filter	USPAT	OR	ON	2006/02/09 13:37
S42 2	0	S421 same (timing)	USPAT	OR	ON	2006/02/09 13:35
S42 3	12	S421 and (timing)	USPAT	OR	ON	2006/02/09 13:35
S42 4	0	S421 and (timing adj recovery)	USPAT	OR	ON	2006/02/09 13:35
S42 5	0	375/355.ccls. and (FIR adj bandpass adj filter)	USPAT	OR	ON	2006/02/09 13:38
S42 6	1	(carrier adj recovery) and (FIR adj bandpass adj filter)	USPAT	OR	ON	2006/02/09 13:38
S42 7	13	(carrier ) and (FIR adj bandpass adj filter)	USPAT	OR	ON	2006/02/09 13:38
S42 8	10	("4004226"   "4334313"   "4621366"   "4692931"   "4800574"   "4805191"   "4815103"   "4975927"   "5048060"   "5097488").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/09 14:29
S42 9	545	equaliz\$5 near4 (timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/09 14:30
S43 0	324	equaliz\$5 near2 (timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/09 14:30
S43 1	200	equaliz\$5 near (timing adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/09 14:34
S43 2	34	(equaliz\$5 near (timing adj recovery)) and (carrier adj recovery)	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/09 15:41
S43 3	1	09/873567	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/09 15:42
S43 4	1	"6421400".pn.	US-PGPUB; USPAT	OR	ON	2006/02/10 09:20
S43 5	1	"5541955".pn.	US-PGPUB; USPAT	OR	ON	2006/02/10 11:04
S43 6	1	"6603825".pn.	US-PGPUB; USPAT	OR	ON	2006/02/10 11:24

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S43 7	1	"6018275".pn.	US-PGPUB; USPAT	OR	ON	2006/02/10 13:40
S43 8	1	"09746823"	US-PGPUB; USPAT	OR	ON	2006/02/10 14:35
S43 9	1	"5436960".pn.	US-PGPUB; USPAT	OR	ON	2006/02/10 14:35